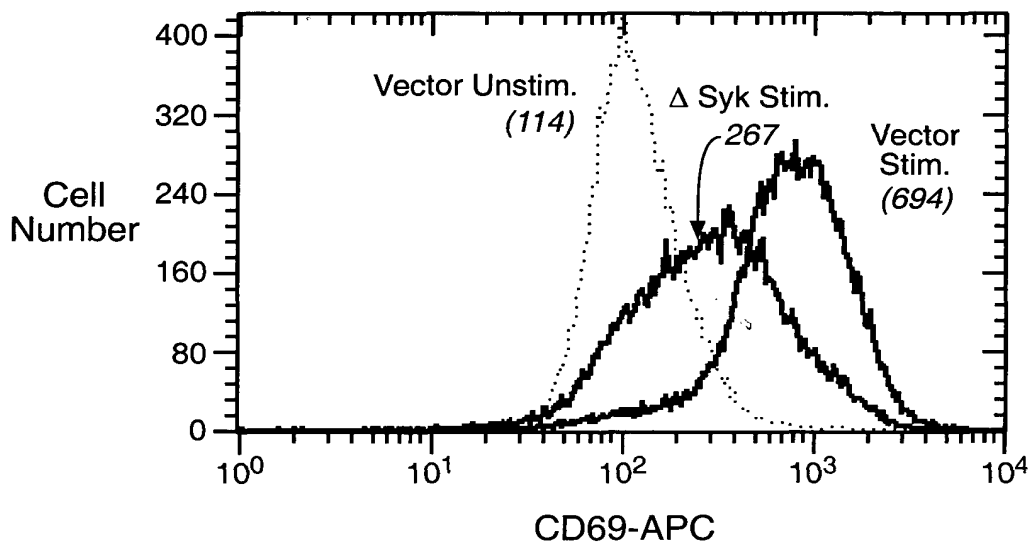


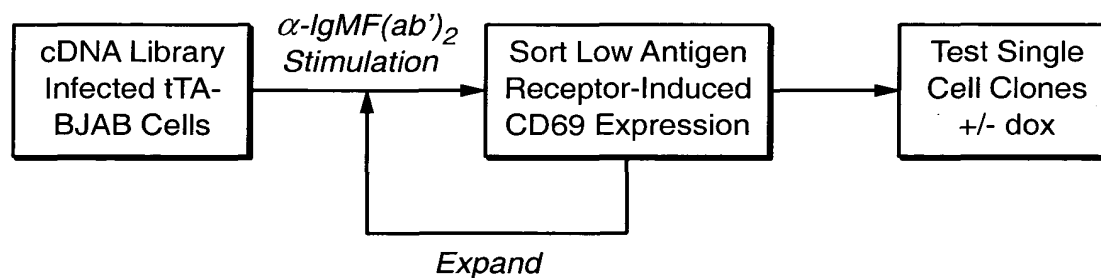
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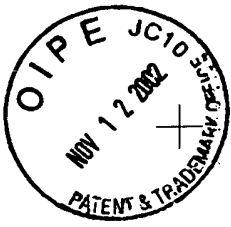


**FIG.\_1A**



**FIG.\_1B**

+



SLIM 1 MGS LPSRRKSLPSLSLSSSVQGQGPV TME AERSKATAVAV <sup>▽</sup> LGSFPAGGPAE LSLRLGEP LIT  
SLAP 1 MG - - - NSMKSTPAP - - - - - AERPLPNPEGLSDSDFLAVL <sup>▽</sup> LSYSPDISPPIFRRG EKLLR

SLIM 61 IVSE DGDWWTVLS EVS GREYN IPSVHVAKVSHGWLYEGLSREKAEELLLP GNP GGAF LLI  
SLAP 51 VIS DE GGWKAIISLS TGR ESY IPGICVAVYHGWLFEG LGRDKAEELLLP DTKVGS FMI

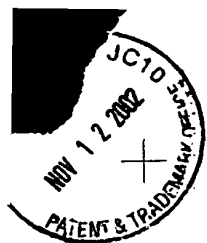
SLIM 121 RESQ TRRGSYSLSVRLSRPASWDRIRHYRIHCHC L DNGWLYI SPRLTFFPSLQA LVDHYSE LA  
SLAP 111 RESE TKGFYSLSVRHR - - - - - QVKHYRIFRLLPNWYI SPRLTFFQCL EDLVNHYSEVA

SLIM 181 DDICCLLKEPCV LQRA G L P G K D I P L P V T V Q R T P L N W K E L D S S L L F S E A A T G - - - - - E E S L  
SLAP 165 DGLCCV LTT PCLTQSTAAPAVRASSSPVTLRQKKTVDWRRVSR LQEDPEGTENPLGVDES L

SLIM 237 LSEGLRESLSFYISLN - DEAVSLDDA -  
SLAP 225 FSYGLRESIASYLSLTS EDNTSFD RKKKSI SLMYGGSKRKSSFFSSPPYFED

FIG..2B

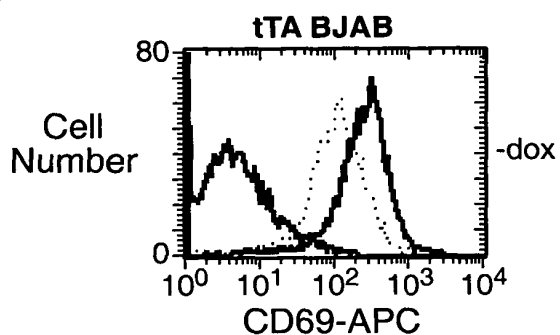
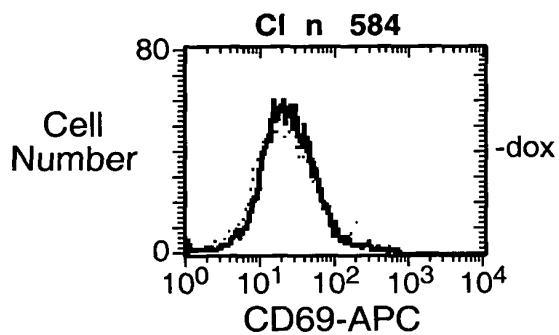
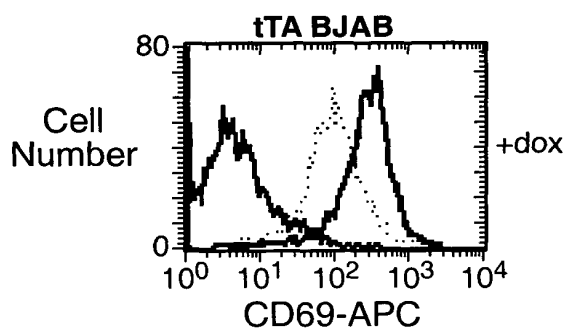
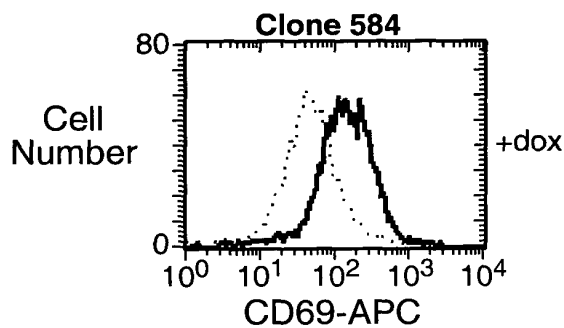
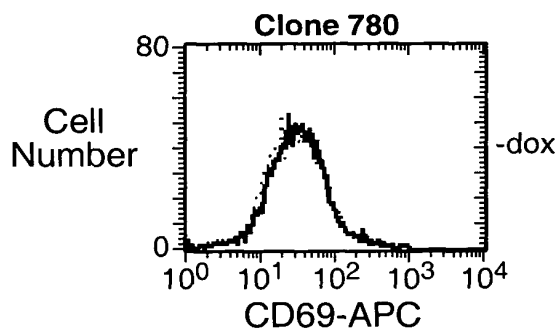
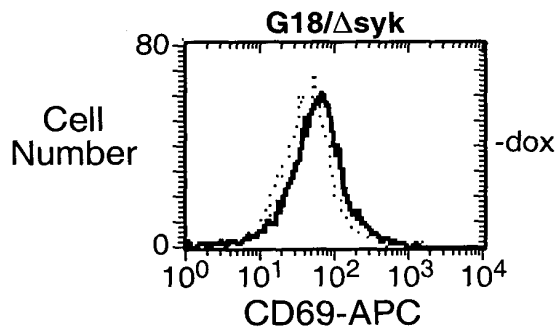
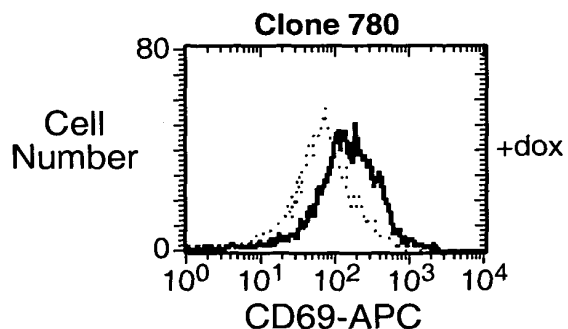
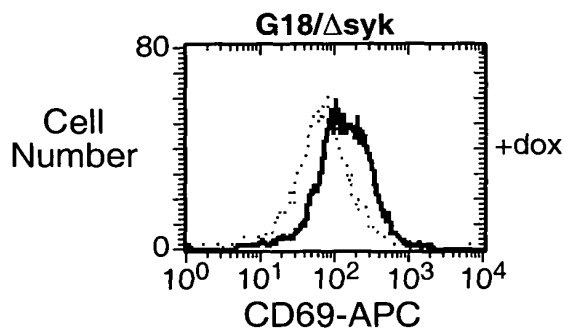


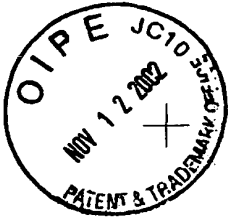


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**FIG.\_1C-1****FIG.\_1C-5****FIG.\_1C-2****FIG.\_1C-6****FIG.\_1C-3****FIG.\_1C-7****FIG.\_1C-4****FIG.\_1C-8**



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atgggaagtctgccagcagaagaaaatctctgccaaagcccaagcttgagttcctctgtc  
M **G** S L P S R R K S L P S P S L S S S V

caaggccagggacctgtgaccatggaagcagagagaagcaaggccacagccgtggccctg  
Q G Q G P V T M E A E R S K A T A V A L

ggcagtttcccggcaggtggcccggccgagctgtcgctgagactcggggagccattgacc  
G S F P A G G P A E L S L R L G E P L T

atcgtctctgaggatggagactggtggacggtgctgtctgaagtctcaggcagagagtat  
I V S E D G D W W T V L S E V S G R E Y

aacatccccagcgtccacgtggccaaagtctcccatggggtggctgtatgagggcctgagc  
N I P S V H V A K V S H G W L Y E G L S

agggagaaagcagaggaactgctgttggttacctgggaaccctggaggggccttcctcatc  
R E K A E E L L L L P G N P G G A F L I

cgggagagccagaccaggagaggtcttactctctgtcagtcgcctcagccgccctgca  
R E S Q T R R G S Y S L S V R L S R P A

tctctgggaccgggatcagacactacaggatccactgccttgacaatggctggctgtacatc  
S W D R I R H Y R I H C L D N G W L Y I

taccgcgcctcaccttccctcactccaggccctgggtggaccattactctgagctggcg  
S P R L T F P S L Q A L V D H Y S E L A

gatgacatctgctgctactcaaggagccctgtgtcctgcagagggctggcccgctccct  
D D I C C L L K E P C V L Q R A G P L P

ggcaaggatataccctacctgtgactgtgcagaggacaccactcaactggaaagagctg  
G K D I P L P V T V Q R T P L N W K E L

gacagctccctcctgttttctgaagctgccacaggggaggagtctcttctcagtgagggt  
D S S L L F S E A A T G E E S L L S E G

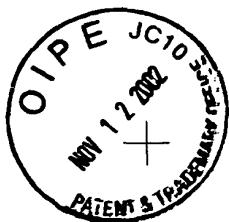
ctccgggagtcacctcagcttctacatcagcctgaatgacgaggctgtctcttttggaatgat  
L R E S L S F Y I S L N D E A V S L D D

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gcctag

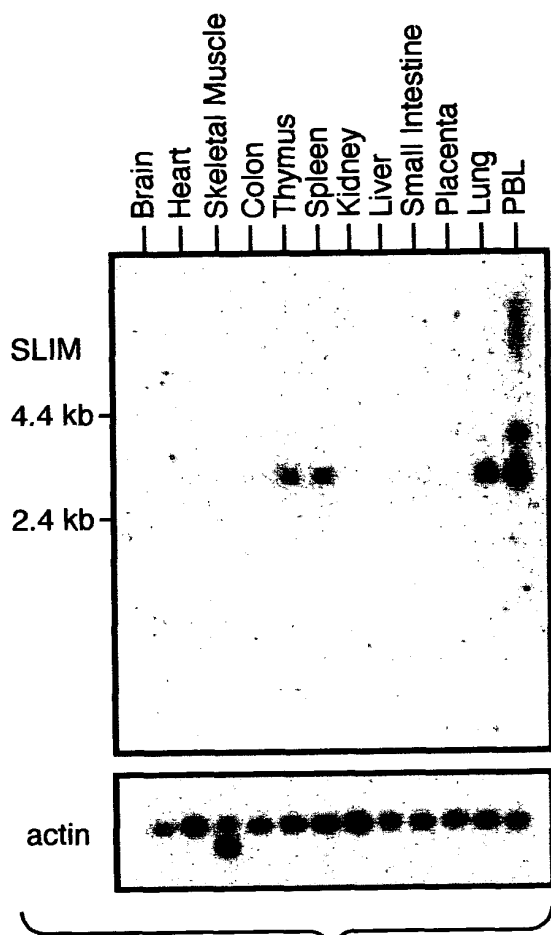
A \*

**FIG. 2A**

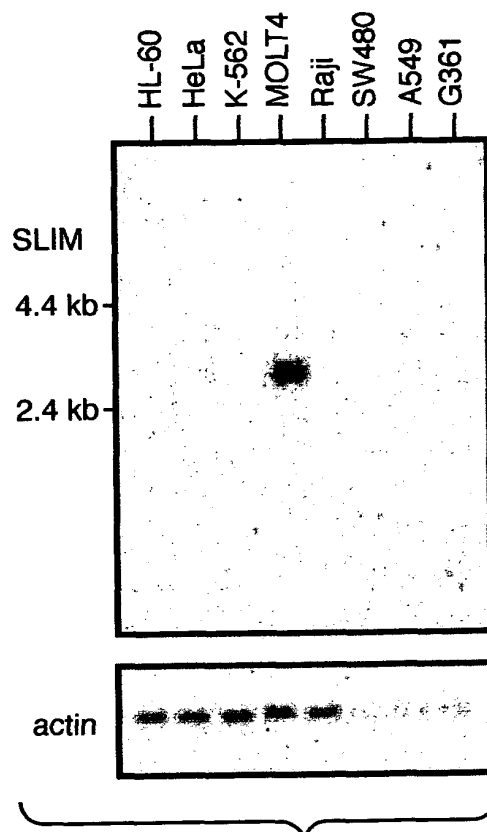


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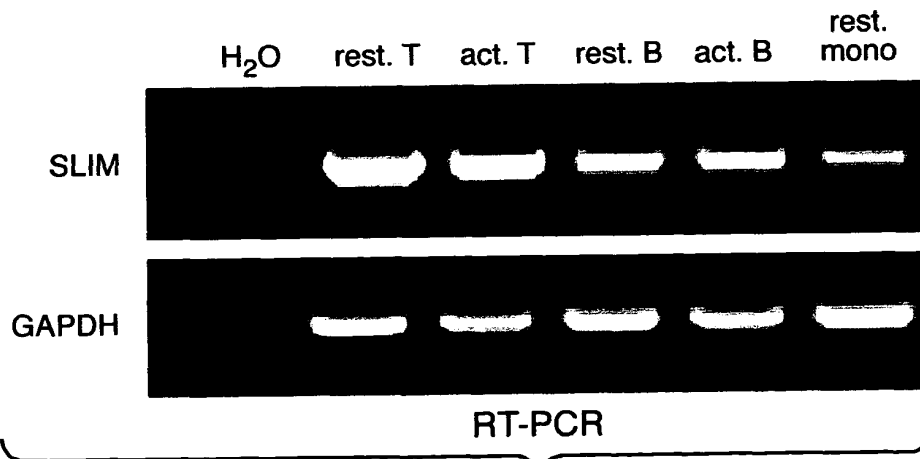
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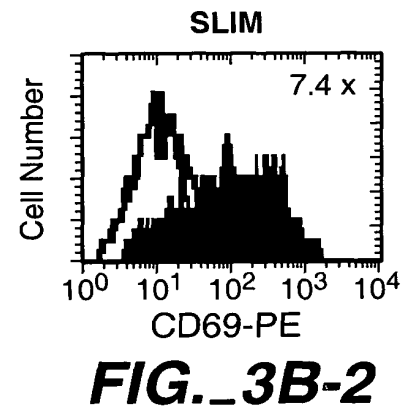
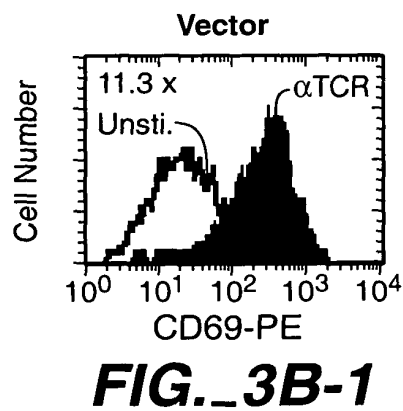
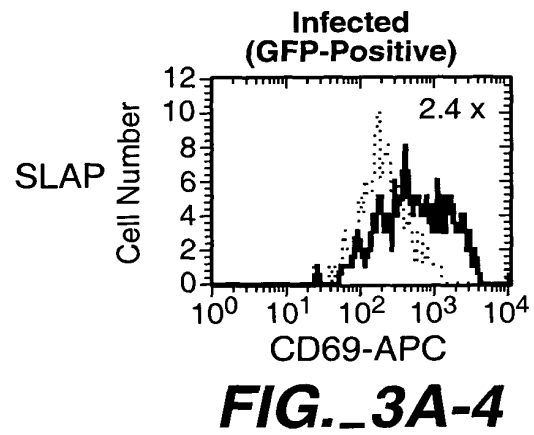
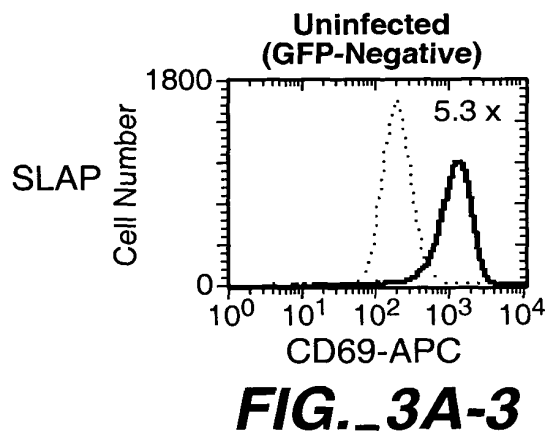
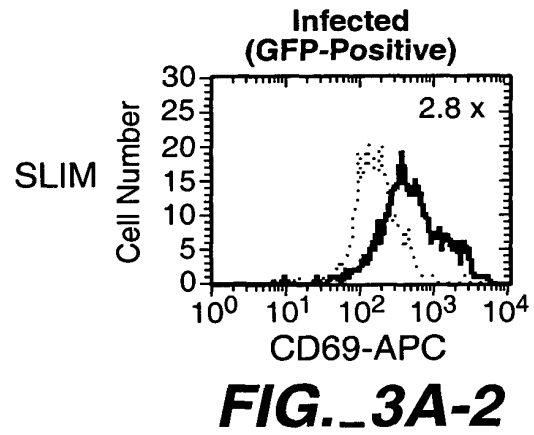
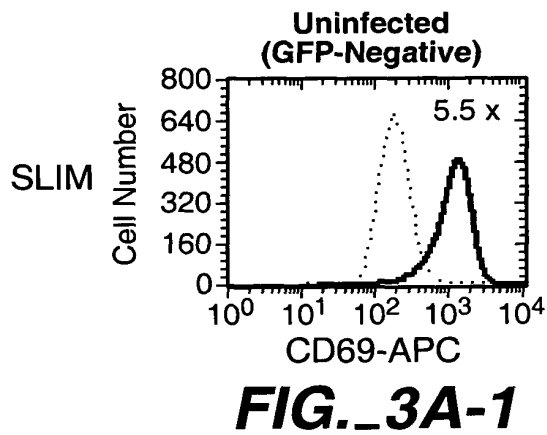
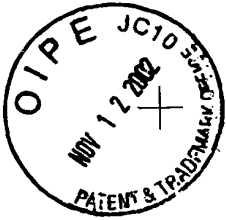
**FIG.\_2C-1**



**FIG.\_2C-2**



**FIG.\_2D**



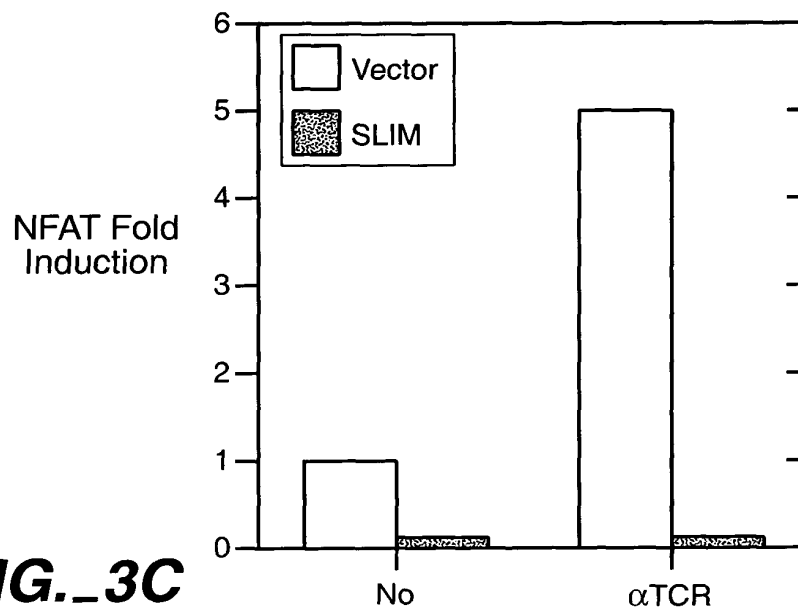


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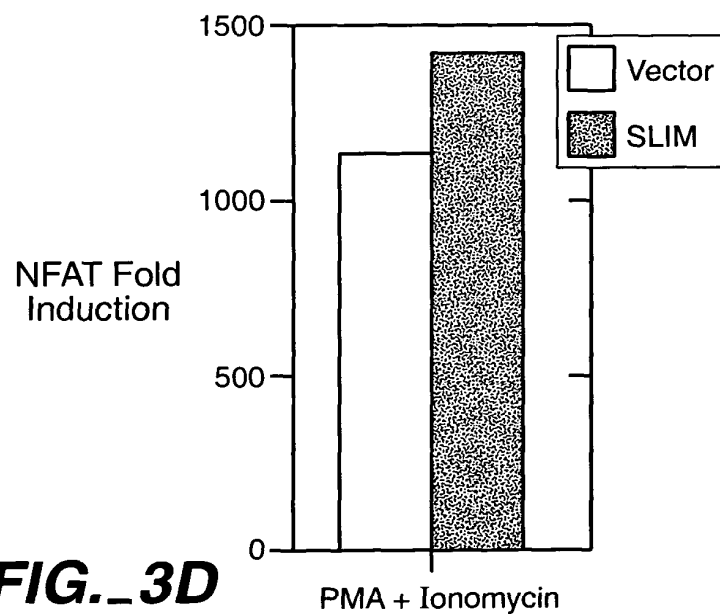
## CD69 Geometric Mean

	unsti.	$\alpha$ TCR	PMA
Vector	18	205	482
SLIM	11	82	480

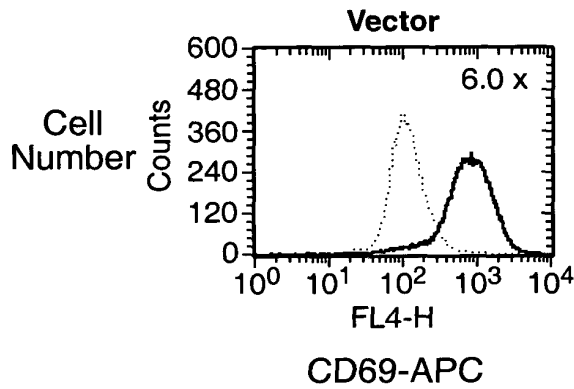
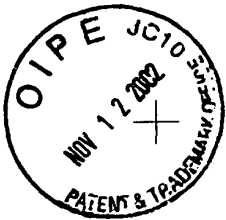
**FIG.\_3B-3**



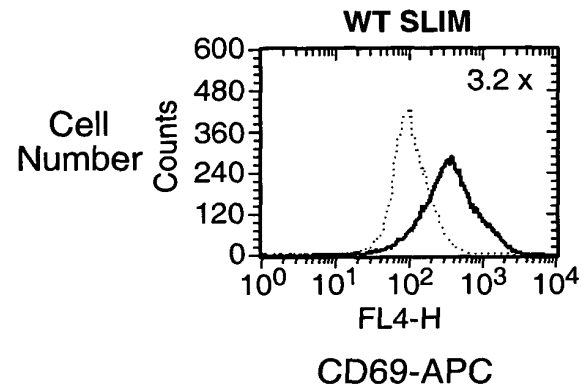
**FIG.\_3C**



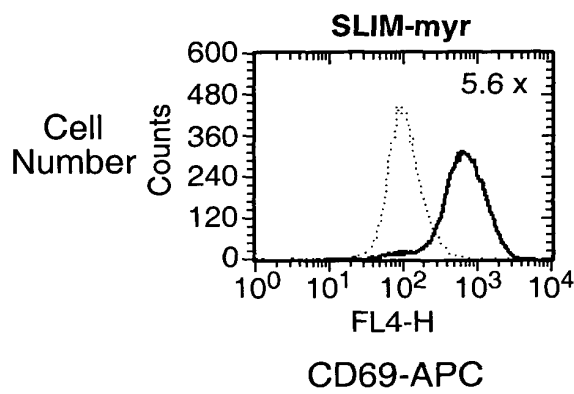
**FIG. 3D**



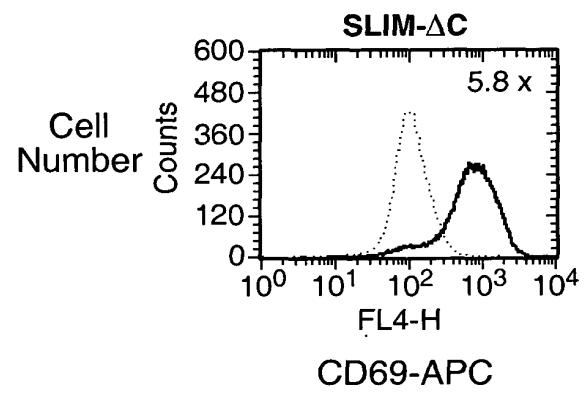
**FIG.\_4A-1**



**FIG.\_4A-2**



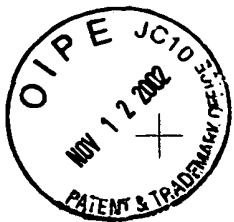
**FIG.\_4A-3**



**FIG.\_4A-4**

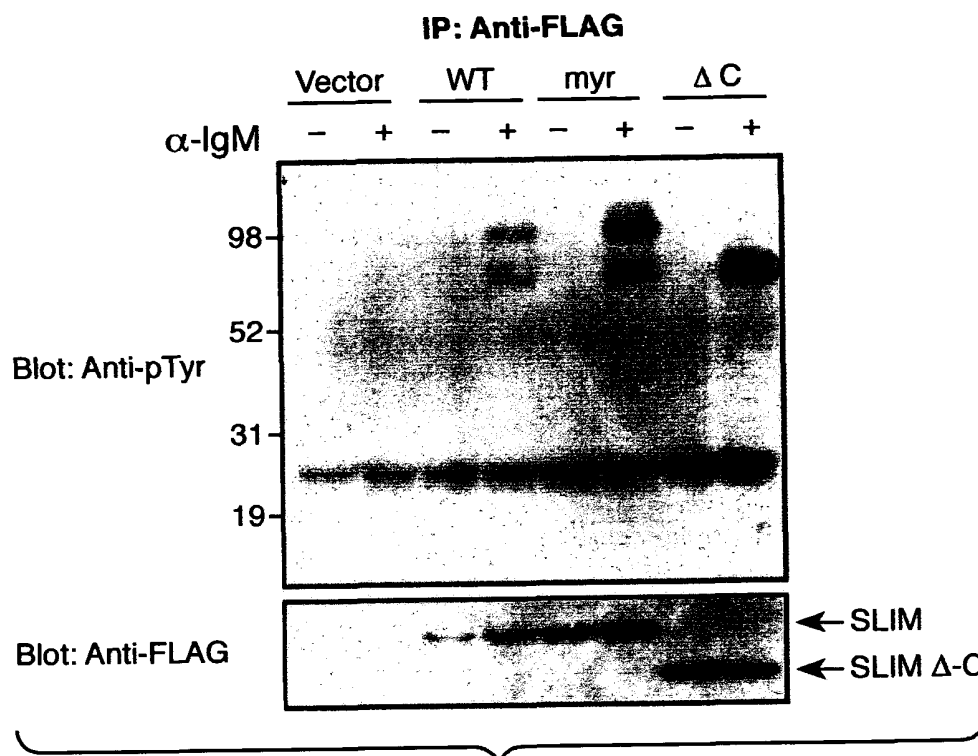




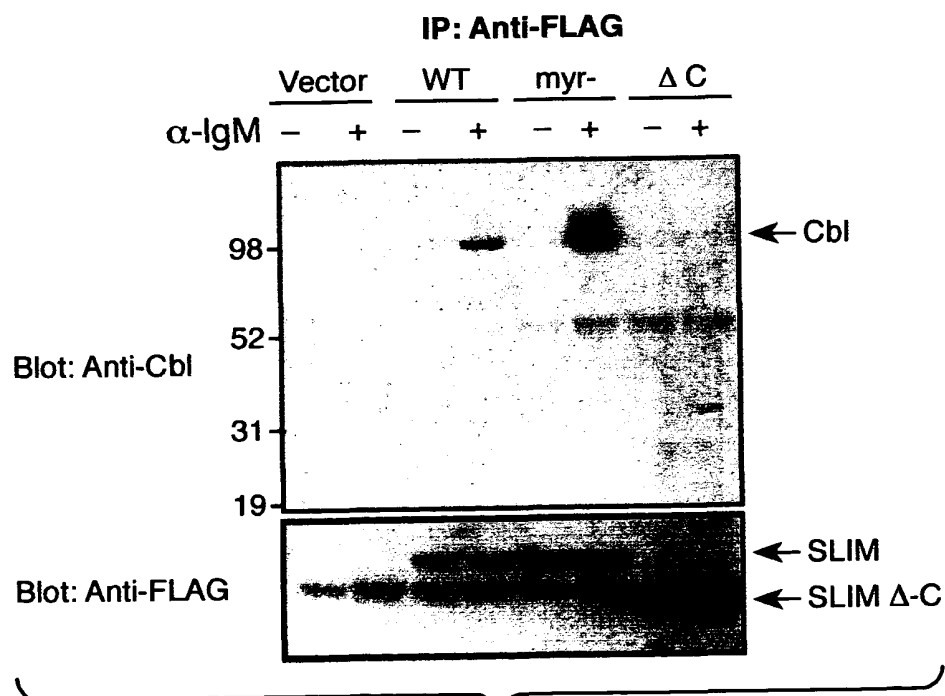


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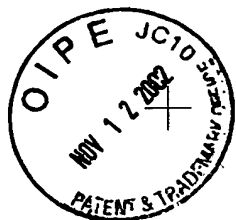
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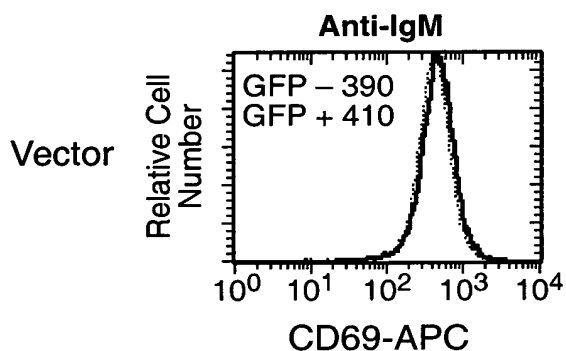
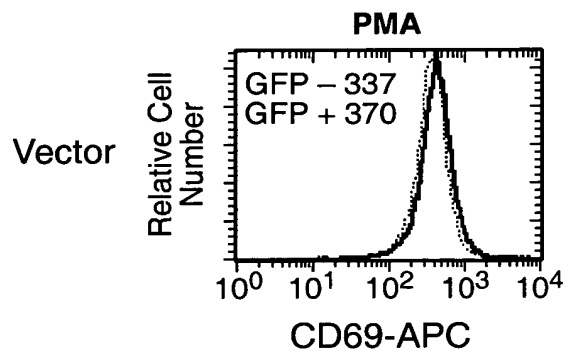
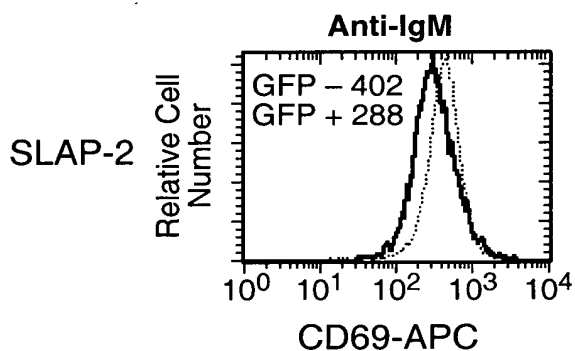
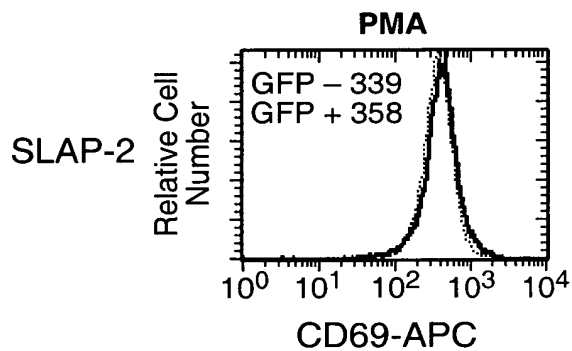
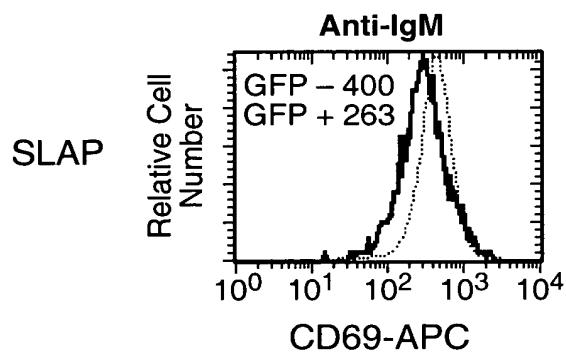
**FIG.\_5A**

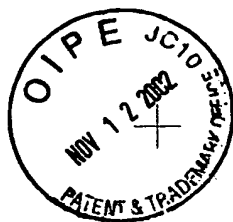


**FIG.\_5B**



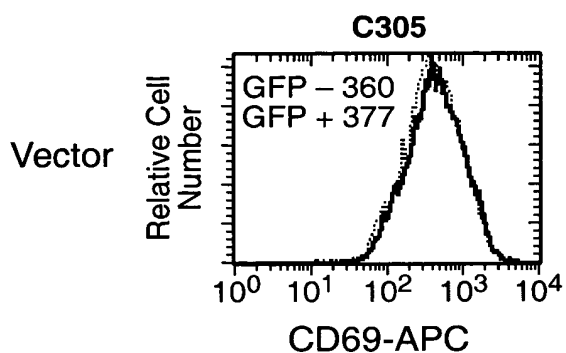
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**FIG.\_6A-1****FIG.\_6A-2****FIG.\_6A-3****FIG.\_6A-4****FIG.\_6A-5**

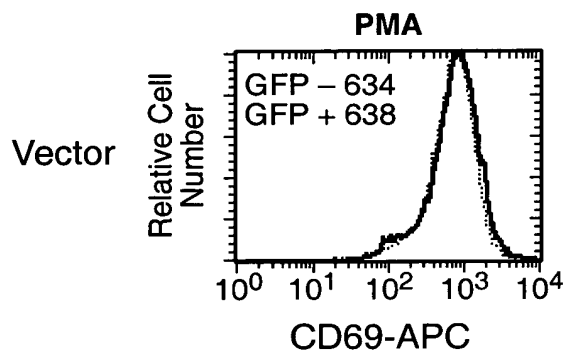


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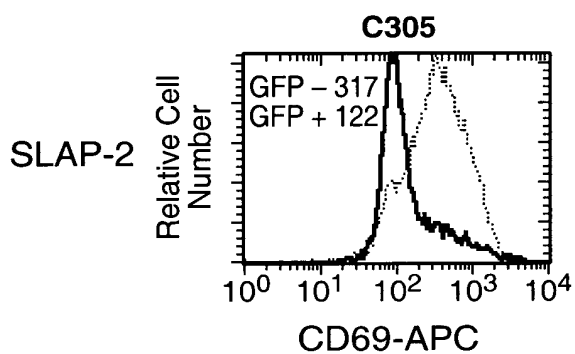
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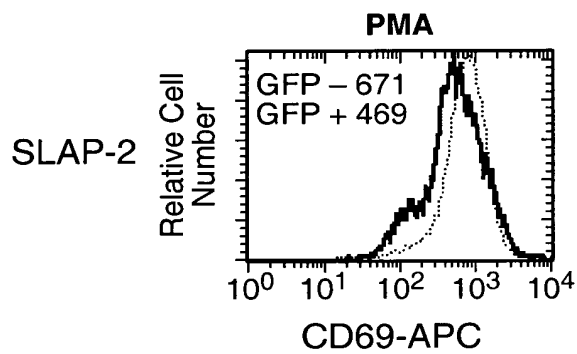
**FIG.\_6B-1**



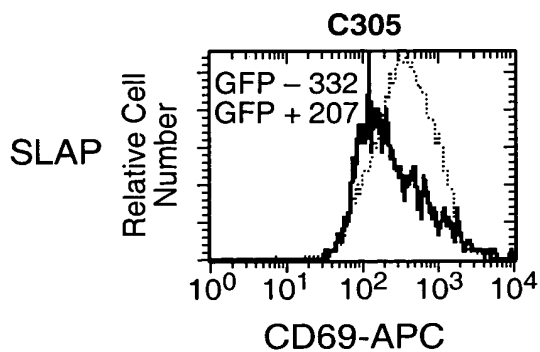
**FIG.\_6B-2**



**FIG.\_6B-3**

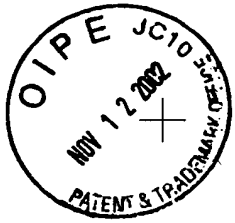
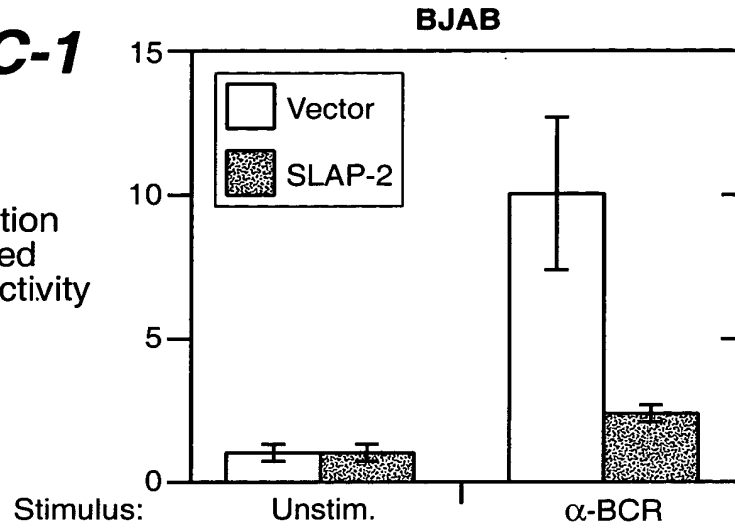
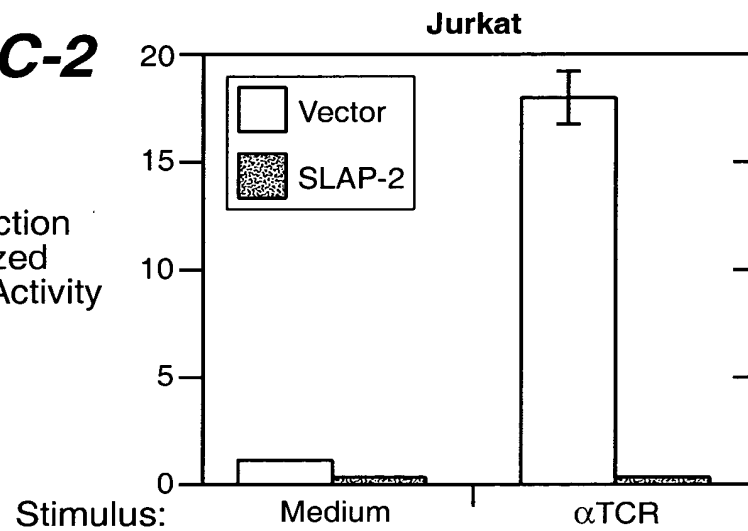
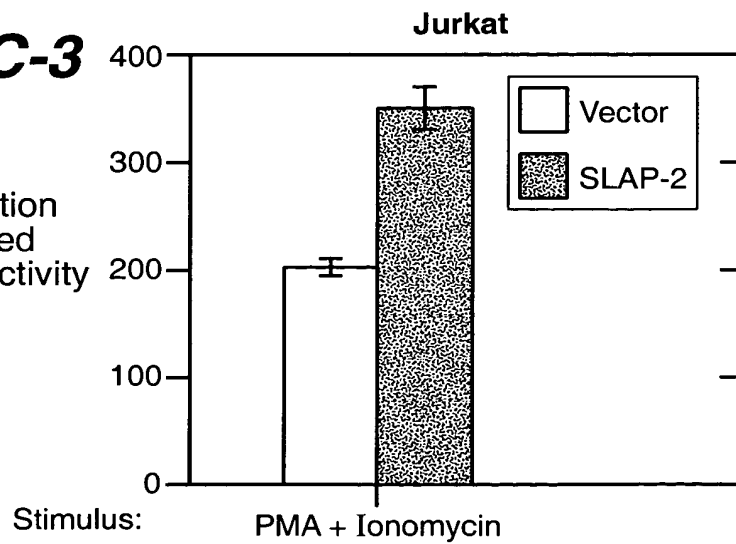


**FIG.\_6B-4**

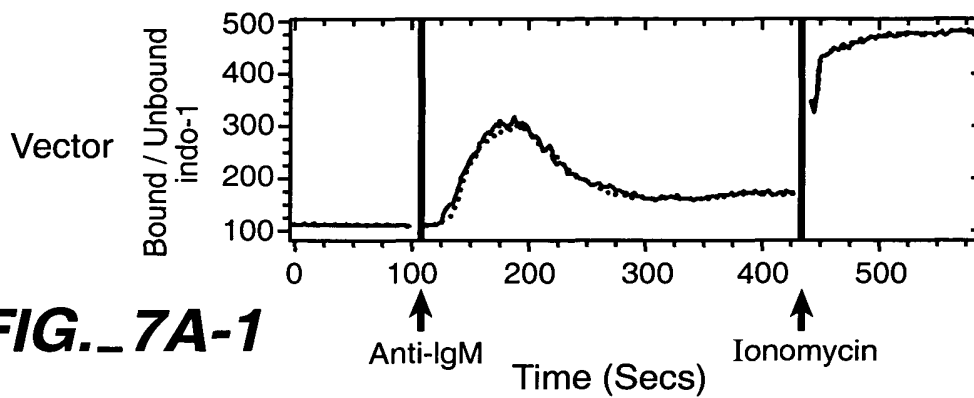


**FIG.\_6B-5**

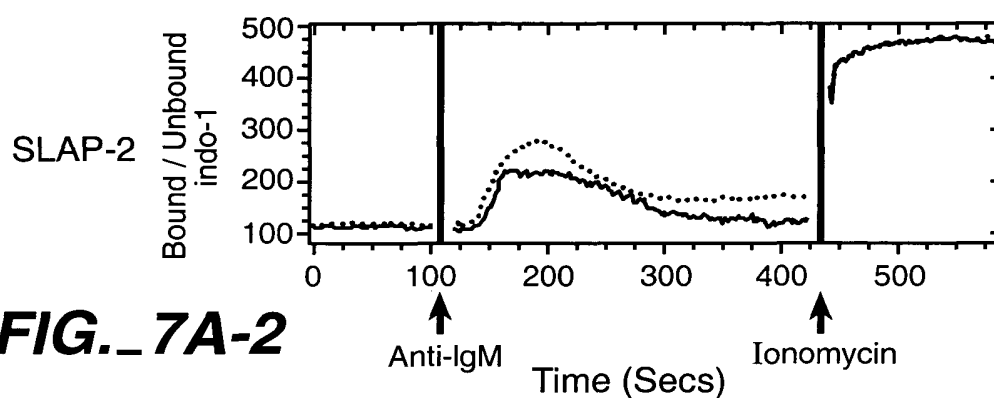


**FIG.\_6C-1**Fold Induction  
Normalized  
Luciferase Activity**FIG.\_6C-2**Fold Induction  
Normalized  
Luciferase Activity**FIG.\_6C-3**Fold Induction  
Normalized  
Luciferase Activity

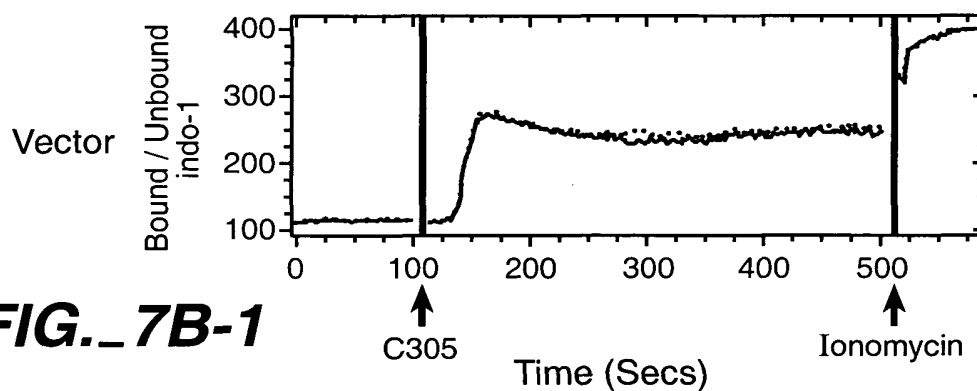
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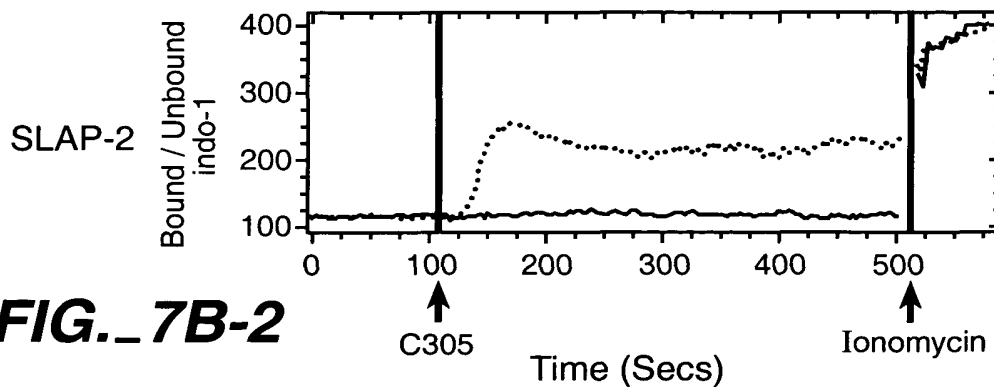
**FIG.\_7A-1**



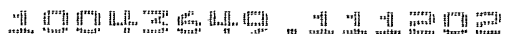
**FIG. 7A-2**



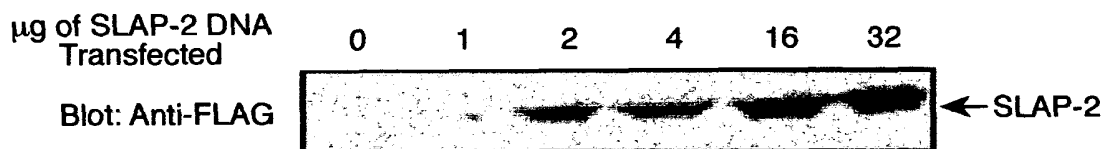
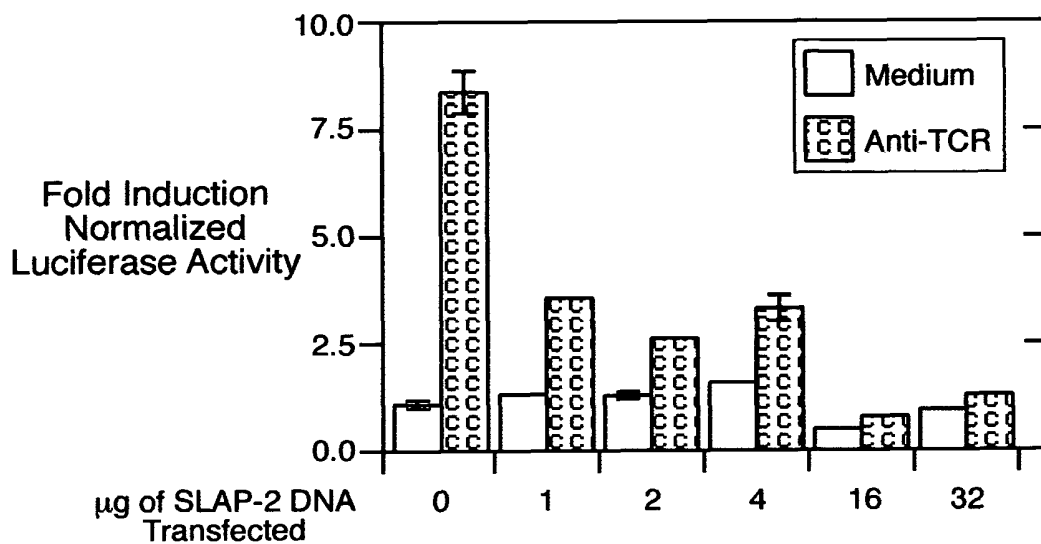
**FIG.\_7B-1**

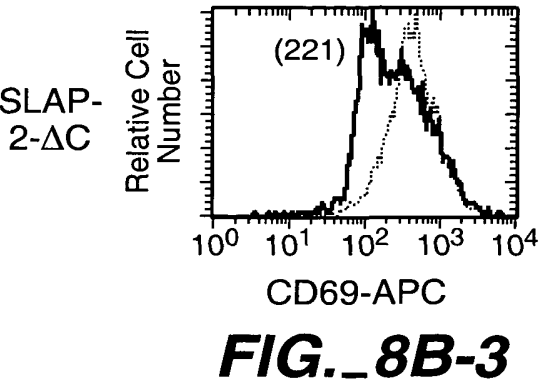
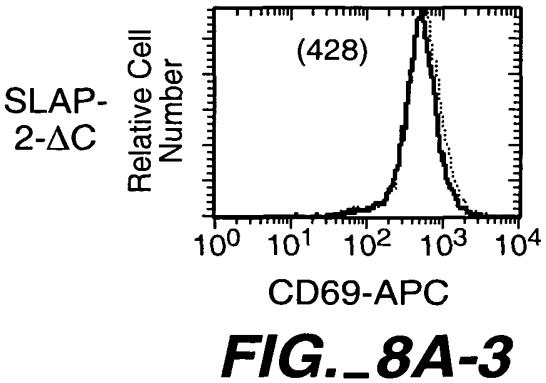
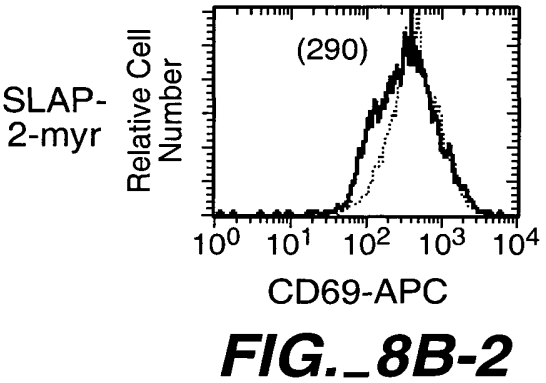
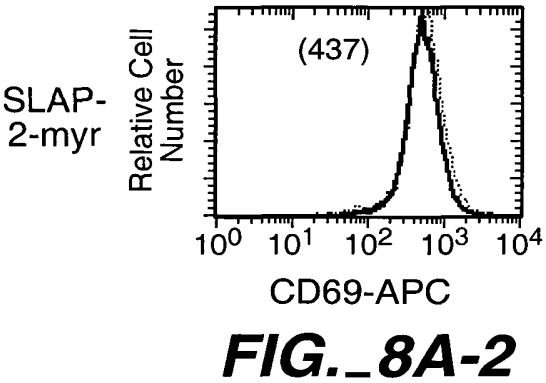
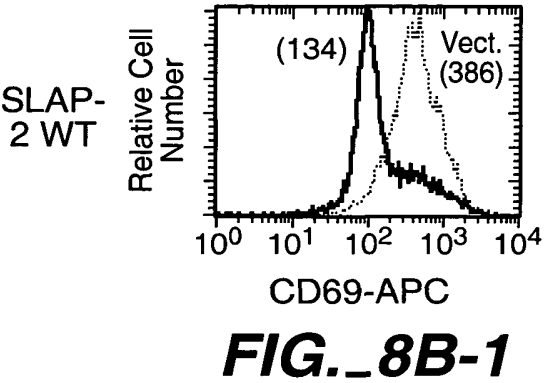
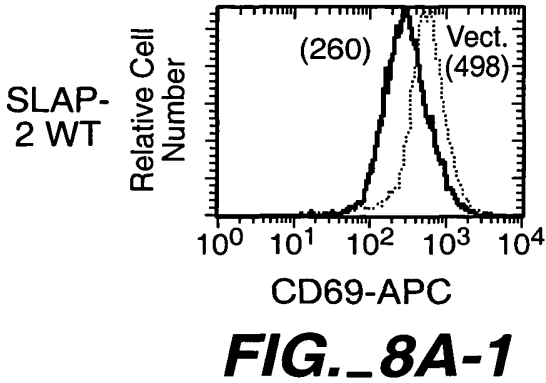
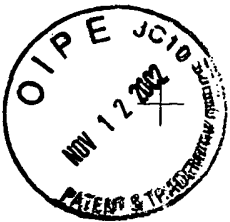


**FIG.\_7B-2**



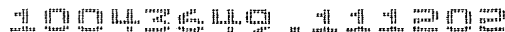
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**FIG. 8E**





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